Forn	a C-104
Dave	02/2000-

VALUE ENGINEERING CHANGE PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION

☐ Conceptual Proposal ☐ Final Proposal	Date 6-30-2010
Contract ID <u>071026-201</u>	Job NoJ2P0482*
County Macon/Shelby Rt.36	Original Bid Cost <u>\$32,109,273.54</u>
Contractor Chester Bross Construction	By Tim Bennett
Designed By N/A	Phone 573-221-5958
VECP# 10-58 (to be completed by C.O.)	VECP Or PDVECP
 Description of existing requirements and proposed of See attached sheet. 	change(s). Advantages/Disadvantages
2. Estimate of reduction in construction costs. \$8,6 3. Prediction of any effects the proposed change(s) will maintenance and operations. The full width concrete surface at the median open maintenance costs in these areas.	
4. Anticipated date for submittal of detailed change(s) Specifications.	of items required by Section 104.6 of the
7-6-20	
(date of the contract completion time or delivery schedule.	•
4-12-2010 Contract Comp.	
(date)	(effect)
	(311333)
5. Dates of any previous or concurrent submission of the	· · ·

ΛÀ	dition	ıal ('omm	ents:

** Portion Below This Line To Be Filled Out by MoDOT **

Comments: I recommend approval of this proposal due to it providing a better finished product as well as the cost savings associated.					
_	Mas J. Sandar Submitted By Resident Engineer	7-8-10 Date			
Comments:					
Approval Recommended Rejection Recommended	District Engineer OWB	7/9/10 Date			
Comments:					
Approval Recommended					
Rejection Recommended	Federal Highway Administration Required for FHWA Full Oversight Projects	Date			
Comments: 50 7/	19/10				
	David D. Godon	7-14-10			
Rejection	State Construction and Materials Engineer	Date			

Value Engineering Proposal – Construct Median Crossovers After Asphalt Overlay Job No. J2P0482

Route 36

County: Macon/Shelby Contract Id.: 071026-201

As designed, the median openings at Kellogg, Lavender, Monarch, and Business 36 were designed to be paved flush with the existing lanes. In order to overlay the existing lanes on a subsequent project (J2P0772), a step was to be constructed at the center of the median opening and a temporary wedge installed. Under project J2P0772, the wedge would be removed and the overlay would be paved flush with the top of the step in the median opening. This would result in the new concrete deceleration lane and half of the new median opening to be covered with the overlay which is not optimum.

The proposed change is to construct the overlay project on the existing lanes before completing the median openings on J2P0482. This would allow the deceleration lanes and median openings to be paved flush with the new overlay.

This proposal generates savings by decreasing the quantity of overlay necessary since the deceleration lanes and median crossovers would not be overlaid. There would also be a reduction in cost due to the elimination of the temporary wedge. However, the paving of the deceleration lanes and median crossovers at a later date does result in increased material and labor costs. This is because paving these at a later date requires the use of ready-mix concrete rather than concrete from the batch plant, as well as an increased amount of hand-paving rather than machine paving. The tabulation of the savings and costs are shown on the attached spreadsheet. The result is an overall reduction in cost to MoDOT.

This proposal is unique in that it affects two separate projects. The majority of the savings are on the overlay project, J2P0772, while all of the additional costs are on J2P0482. In order to administer this proposal, a change order will be necessary on both projects. Draft copies of those change orders are also attached to this Value Engineering Proposal.

4/6/2010 DATE:

Route 36, Macon/Shelby Counties Contract I.D. 071026-201 Job No. J2P0482

VECP

	<u> a </u>	580 14 Delete (Kellogg, Lavender, Business 36, Monarch)
	Total	\$2,200
Bid Price for	SP125C	\$5.7.5.E60.05
	Unit	
	<u>Otv</u>	44 St. 242 80 B
	Bid Item	MOSIASPHALTIC CONGRETE NURE RG 70-22 (SP125C MIX)
		40301031A

920 Delete (Kellogg, Lavender, Business 36, Monarch) Total **Bid Price for** SP190C Unit Qtv 4030208 ASPHAETIC CONCRET Bid Item

Total Bid Price for Tack Coat Unit

381.00 Delete (Kellogg, Lavender, Business 36, Monarch) \$,,097,....\$

2018 Section (Kellogg, Lavender, Business 36, Monarch) Total **Modified Cold Bid Price for** Milling Chit Qtv 6224010 Modified colo Milling **Bid Item**

GOZDOB Lavender, Monarch, Kellogg Tota Savings for Eliminating Wedge Unit QtV Bid Item

2 025 00 Business 36 Total Eliminating Wedge Unit ð Bid Item

Savings for

41,712.99 SAVINGS \$

	Bellogg Lavender, Monarch, Kellogg	633.8+633.8+416.7=1684.3	Business 36		De Lavender, Monarch	570+570+438=1578	Business 36				
	<u>Total</u>		Total Total Total B L	Total			10141 RESERVED	33,096.69	8,616.30		
Additional Cost for Hand	<u>Ready Mix</u>	Additional Cost for Hand pour and	Ready Mix	Cost for Saw Cuts	3.000	Cost for Saw		Costs \$	∙		
	<u>Unit</u>		Unit	Unit		+					
	Otv 1768/120		<u>Otv</u> 633 80	Q‡	1.878.00		المريد 1570 الم				
	Bid Item noreite Pavement (7.16 Non- its Etalonts)		Bid Item 502/1980ondestellpavement(811n Non- Reinforced (8311)ongs	Bid Item	S02(30/Concrete/Pavement//In/Non-sir Reinforgeof (58/FIGUR)	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Sign item Sign is design in the sign in the sign is sign in the sign in the sign is sign in the sign i		Total Savings to MODOT	12P07/72 tems	ett nager
	507.1307.Condre Reptional		S074908 Cond Remiorced		502(307=00 Remformed)		SOZIBORIO Ranforcedi		Total Saving	12207.72 Te	<u>Tim Bennnett</u> Project Ma <mark>n</mark> ager

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- □ Bridge/Structure/Footings
- □ Drainage Structures (RCP, RCB, CMP's, ect.)
- □ TCP/MOT
- Paving (PCCP, ect.)
- □ Grading/MSE Walls
- □ Signal/Lighting/ITS
- □ Misc.

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

PCC

(ONSTRUCTION OF MEDIAN OPENINGS WILL BE OFLAYED TILL COMPLETION OF AN HMA RESURFACING PAJECT, BEING PLACED BY THE SAME CONTRACTOR.

THIS DELAY WILL ELIMINATE A NOTCHEO CONCRETE PAVEMENT THAT

WOULD HAVE BEEN NECESTARY FOR A TEMPORARY LNGOER AND (AFTER REMOVAL)

OF THE WERGE) A PERMANENT OVERLAY ON THE NEW CONCRETE.

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database.	If
there are special instructions, make note of them here.	